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CLAIMS

1. A protein hydrolysate which is rich in tripeptides whereby the tripeptides are rich in proline at one end of the peptide.

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2. A protein hydrolysate according to claim 1 wherein at least 20 molar %, preferably at least 25 molar %, or more preferably at least 30 molar % of the peptides having a molecular weight of 200 to 2000 Da is present in the hydrolysate as tripeptide.

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3. A protein hydrolysate according to claim 1 or 2 wherein preferably at least 20%, preferably at least 30%, or more preferably at least 40% of the proline present in the starting protein is present in the tripeptides.

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4. A protein hydrolysate according to any one of claims 1 to 3 wherein at least 30% of the tripeptides, or preferably at least 35% of the tripeptides, have a carboxy terminal proline.

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5. A protein hydrolysate according to any one of claims 1 to 4 wherein at least 70 molar % of the peptides, or preferably at least 75 molar % of the peptides contain 2 to 7 amino acid residues (dipeptide to heptapeptide).

A method of producing a protein hydrolysate,
the method comprising contacting a protein substrate with:

- a) endoprotease; and
- b) tripeptidase (TPAP).

7. A method according to claim 6 whereby the endoprotease is a proline specific endoprotease (PSE), a serine protease, an aspartic protease or a metalloendoprotease, preferably the endoprotease is a PSE.

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- 8. A method according to claim 6 or 7 whereby the protein substrate is first contacted with serine protease, aspartic protease or metalloendoprotease and subsequently the TPAP and optionally PSE is added.
- 5 9. Use of protein hydrolysate according to any one of claims 1 to 5 for mammalian, preferably human, consumption.
 - 10. An enzyme composition comprising
 - (a) an endoprotease and
- 10 (b) a tripeptidase (TPAP).

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- 11. An enzyme composition according to claim 10 wherein the endoprotease is a serine protease, an aspartic protease, a metalloendoprotease or a proline specific endoprotease (PSE), preferably the endoprotease is a PSE.
- 12. An enzyme composition according to claims 10 or 11 whereby this composition when added to a suitable protein is able to produce a protein hydrolysate of any one of the claims 1 to 5.
 - 13. A food or feed product comprising a hydrolysate of anyone of claim 1 to 5.
 - 14. The use of an enzyme composition according to anyone of claims 10 to 12 to reduce the intolerance to proline rich food stuffs.
- 20 15. The use of an enzyme composition according to anyone of claims 10 to 12 in food or feed or in /the production of food or feed.